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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,802	07/17/2003	Hajime Yoshino	041465-5194	8997
55694 7590 10/05/2007 DRINKER BIDDLE & REATH (DC)		EXAMINER		
1500 K STREE			FAULK, DEVONA E	
SUITE 1100 WASHINGTO	N, DC 20005-1209		ART UNIT	PAPER NUMBER
			2615	
			MAIL DATE	DELIVERY MODE
			10/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/620,802	YOSHINO, HAJIME				
Office Action Summary	Examiner	Art Unit				
	Devona E. Faulk	2615				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06 J	lulv 2007.					
· · · ·	s action is non-final.					
3) Since this application is in condition for allowa		osecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>3 and 12</u> is/are allowed.						
6)⊠ Claim(s) <u>1,2,4-9-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>17 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the E	* * * * * * * * * * * * * * * * * * * *	•				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. ☑ Certified copies of the priority documen	ts have been received					
2. Certified copies of the priority documen		tion No				
3. Copies of the certified copies of the prior						
application from the International Burea	•	ca iii ano itaaonai cago				
* See the attached detailed Office action for a lis	, , , ,	ed.				
AMARINA MARINA						
Attachment(s)	A) Intonious Commen	v /PTO 412)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal					
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments, filed 7/6/2007, with respect to the 102 and 103 rejections of claims 1-12 have been fully considered and are persuasive. The 102 and 103 rejections of claims 1-12 have been withdrawn.
- 2. Applicant's arguments, filed 7/6/2007, with respect to the rejection(s) of claim(s) 9 and 10 under 112 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of 101 rejections.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 9 and 10 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 9 and 10 recite "a program, carried out by a computer. A program is non-statutory subject matter.

Examples of acceptable language in computer-processing related claims:

1.	"computer readable medium" encoded with [a] "a computer program" [b] "software" [c] "computer executable instructions" [d] "instructions capable of being executed by a computer"
2.	"a computer readable medium" "computer program" [a] storing a [b] embodied with a

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[c] encoded with a

[d] having a stored

[e] having an encoded

Claim Rejections - 35 USC § 112

4. Claims 1,2,4-8,9,11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claims 1, 9 and 11 recite " .. to estimate a relative level of the signal component in each variable-level band on the basis of a level of the signal component in the fixed level band in the target frequency characteristic...". The specification is not enabling as to how this is done.

Allowable Subject Matter

- 5. Claims 3 and 12 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:

Regarding claims 3 and 12, prior art Velmer (US 5,515,446).discloses a frequency characteristic adjustment apparatus in which an inputted signal is subjected to adjustment for making a frequency characteristic of the signal agree with a target frequency characteristic (Figure 1), the apparatus comprising: an estimation device configured to divide the inputted signal into a signal component falling into a plurality of signal components and to estimate a relative level of the signal component (22 channel accurate reproduction circuit, Figure 1; column 5, lines 45-column 6-line 5); an

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adjustment device configured to adjust the level of the signal component of each variable-level band of the signal based on the estimated relative level of the signal component in each variable-level band (62,64,66,68,70,72,74, 76 limiters, Figure 1; column 6, lines 5-24); and an output device configured to output the signal adjusted by the adjustment device (output circuit 24, Figure 1). Prior art Ouchi et al. (US 6,072,879) discloses a sound field control device comprising equalizers 134 and 140 and that a fixed level band is centered at a frequency of 1kHz (column 11, lines 36-65). Prior art Sasaki (US 6.996.240) teaches of equalizing the sound source and the sound picked up by the microphone (column 3, lines 17-46). Prior art Berkovitz et al. (US 4,458,362) discloses a computer program that implements equalization (column 15, lines 33-40 Prior art Lawton (US 5,987,145) discloses a digital audio equalizer. The prior art or combination thereof fails to disclose or make obvious dividing an audio signal into a signal component falling into one fixed level band and one or more signal components falling into one or more variable level bands and to adjust levels of the signal components in only the variable level bands of the audio signal.

Therefore the prior art or combination thereof fails to disclose or make obvious a frequency characteristic adjustment apparatus and a method of adjusting a frequency characteristic of an input audio signal as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devona E. Faulk whose telephone number is 571-272-7515. The examiner can normally be reached on 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

VALAN CHIN
SUPERVICEON PATENT EXAMINER
TECHNOLOGY CRITER SIZE

DEF

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